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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/858,190	05/15/2001	Raymond Clarke	13282-1	9310
	7590 04/23/201 AK ROSE & ANDERS	EXAMINER		
100 Corson Stre		WEINSTEIN, STEVEN L		
Third Floor PASADENA, C	CA 91103-3842		ART UNIT	PAPER NUMBER
,			1782	
			MAIL DATE	DELIVERY MODE
			04/23/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary CLARKE, RAYMOND Examiner Steven L. Weinstein 1794 1794 1794 1794 1794 1794 1794 1794 1794 1794 1794 1794 1794 1794 1794 1794 1795 17	Office Action Summary		Appli	cation No.	Applicant(s)	Applicant(s)		
Steven L. Weinstein 1794			09/8	58,190	CLARKE, RAYM	CLARKE, RAYMOND		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address − Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be examined used the proximise of 37 CFR 11364. In the event However, may a roby be timely field of the SX (6) MONTHS from the mailing date of this communication. If NO period to reply is specified used, the proximise address of the Communication. If NO period to reply is proceed use, the manuscribed propriod will apply and will expire SX (6) MONTHS from the mailing date of this communication. If NO period to reply is proceed use, the mailing date of this communication, and patent them adjustment. Swi 37 CFR 1.704(b). Status 1) ☑ Responsive to communication(s) filed on 30 September 2008. 2a) ☑ This action is FINAL. 2b) ☑ This action is in ShinAL. 2b) ☑ This action is provided by the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ☑ Claim(s) 1,11-15, and 21-25 is/are withdrawn from consideration. 4a) ☑ of the above claim(s) ½ is/are withdrawn from consideration. 50 ☑ Claim(s) 1,11-15, and 21-25 is/are rejected. 71 ☑ Claim(s) is/are allowed. 8) ☑ Claim(s) 11-15 and 21-25 is/are rejected. 71 ☑ The proximitation is objected to by the Examiner. Application Papers 9) ☐ The specification is objected to by the Examiner. Application Papers 9) ☐ The pacification is objected to by the Examiner. Application Papers 9) ☐ The proximitation of the priority documents are required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * ○ ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐			Exam	niner	Art Unit			
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1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:	1) X Notic 2) Notic 3) Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P [*] nation Disclosure Statement(s) (PTO/SB/08)	ГО-948)	Paper No(s 5) Notice of Ir	s)/Mail Date nformal Patent Application			

The Office response to applicants letter received 9/30/08, for reasons unknown, has been delayed. The Office regrets any inconvenience.

In response to the letter of 9/30/08, the examiner confirms that the Office action mailed 12/28/06 was inadvertently sent out incomplete, since new references had been added to the rejection which were not apparently added to the mailed action and not included on a PTO892 form. Accordingly, the Office action, mailed 12/28/06, is hereby withdrawn and a new non-final Office action is found below.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 11-15 and 21-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Scolaro ('378) in view of Cummin et al ('333) or vice versa, both further in view of Badran ('542), Badran et al ('544), Anderson ('875), Antoon ('331) and De Moor ('293), for the reasons of record, further in view of newly added Veeraju et al (Modern Packaging, 1966, 40,#2), Rizvi (Proceedings of the Intl. Confer. On Controlled Atm. Packag., 10/29/84), Varriano-Marston et al (Produce Marketing Almanac, 1987), Irving (CSIRO, 1984), Marcellin (Revue Generale du Froid, 3/1974), Wade (J. of Experimental Botany, 10/74, vol. 25, no. 88, pp.955-964, cited on page 6 of applicants IDS of 5/3/2002), Wardlaw (Tropical Agriculture, 1940, vol. XVII, no. 6, p.103plus, cited

on page 6 of applicants IDS of 5/3/2002), <u>Saguy</u> (Refrigeration Science and Technolgy,1973, p.149 plus), <u>Urushizaki</u> (Foods and Food Ingredients,Japan 1998), <u>Leonard</u> (Annals of Botany,1947, vol. 11, no. 43), <u>Mannapperuma</u> (Proc. Atm. Res. Conf.,1989), Zagory et al (Food Technology, 9/1988), <u>Emond et al</u> (American Soc. Agricultural Engineers, 1991), <u>Ballantyne et al</u> (Intl. J. of Food Science and Technology (1988), and Hardenburg (HortScience (1971).

In regard to claim 11, Scolaro discloses a package comprising a sealed container containing bananas which have not ripened, and thus inherently have not reached "their climacteric" and a packaging atmosphere around the bananas, and wherein the CO2 to O2 ratio is at least 3, the ethylene permeability is at least three times the O2 permeability and the atmosphere can be in the amount recited. It is not clear how the O2 permeability of Scolaro relates to that of the claim since the units are entirely different. In any case, Cummin et al, Badran, Badran et al, Anderson, Antoon, De Moor, Veeraju et al, Rizvi, Varriano-Marston et al, Irving, Marcellin, Wade, Wardlaw, Saguy, Urushizaki, Leonard, Mannapperuma, Zagory et al, Emond et al, Ballantyne et al, and Hardenburg all disclose that it was notoriously conventional to manipulate permeabilities in accordance with the particular product, its weight, its respiration rates, the amount of product, packaging size, and temperature, to provide a reduced (relative to atmospheric) O2 level and an increased (relative to atmospheric) CO2 level to slow respiration of produce. The preponderance of the evidence teaches that it was well established in the art, whether it is bananas or any or produce, that one can manipulate all of the known variables including the particular produce, gas permeabilities of the

Art Unit: 1794

packaging material, temperature, respiration rate, weight of product, etc. to provide atmospheres in the containers which are low in O2 relative to ambient (i.e., any O2 concentration less that 20%-except less than 1% due to the disadvantages of an anaerobic condition) and high in CO2 relative to ambient (i.e., any CO2 concentration greater than say 1%). Therefore, even if the references did not fairly suggest the recited range, which they do, the art taken as a whole would fairly teach one of ordinary skill in the art to carry out routine and obvious experimentation, and now analog modeling, as evidenced by Veeraju et al, Rizvi, Varriano-Marston et al, Irving, Marcellin, Mannapperuma et al, Zagory et al, and Emond et al, to achieve optimum results in produce storage. In regard to the term equilibrium atmosphere, the objective of the art taken as a whole is to provide an equilibrium atmosphere when one is attempting to extend the life of produce by slowing down respiration. It is also noted that Wade discloses low O2 is any amount less than 21%, and that ethylene levels of 15% were employed; Wardlaw discloses a level of O2 of 14.5%; Saguy et al discloses that RQ values do not rise appreciably until the O2 level is higher than 17; Urushizaki discloses an O2 content of 17%; Leonard discloses an O2 content of 14%; Ballantyne et al discloses an O2 content of 15%; and Hardenburg discloses not only that the weight of produce affects the atmosphere in a produce package, but that the equilibrium concentration of gases are also affected. To modify Scolaro, if necessary, and manipulate the permeability to achieve extended storage life without ripening, which is the objective of both Scolaro and Cummin et al, would therefore have been prima facie obvious. Stated somewhat differently, the particular equilibrium atmosphere gas

Art Unit: 1794

concentration ranges, including oxygen and carbon dioxide ranges (as well as the temperature range) are seen to have been an obvious result effective variable and/or routine optimization, routinely and obviously determinable in view of the art taken as a whole. Similarly, Cummin et al also teaches packaging green bananas in a sealed container with ratios of permeabilities that appear to be in the recited range. It would appear that at least in a short time after packaging, Cummin et al would have had a gas concentration within the recited range. In any case, it would have been obvious to modify Cummin et al and employ an O2 concentration within the recited range for its art recognized and applicant's intended function of slowing down respiration. In regard to the dependent claims, which recite a permeable control member, Anderson and Antoon and DeMoor all teach the conventionality of control members employed with produce packaging with DeMoor specifically teaching the particular control member, and to therefore modify the combination and provide a produce package with a permeable control member for its art recognized and applicants intended function is seen to have been obvious. The remainder of the claims are rejected for the reasons given above. In summary, the art taken as a whole fairly teaches one of ordinary skill in the art to derive through routine determinations, the permeability necessary to extend the life of produce, including bananas, as a function of the known variables that are a function of the required permeability needed to retain a certain modified atmosphere within a package to extend storage life. There is nothing magic or secretive in these manipulations. The art fully and clearly teach that by lowering O2 levels and raising CO2 levels, and maintaining the modified levels, in a produce package, under refrigerated temperatures,

which, in a transportable package, can be done by employing semi permeable packaging material, the produce will have extended life. The art clearly teaches that each type of produce and even the amount of the same produce and the size of the container, will necessitate different but routinely determinable permeabilities. It is noted that the data set forth in the specification is more indicative of optimization rather than an unexpected result.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven L. Weinstein whose telephone number is 571-272-1410. The examiner can normally be reached on Monday-Friday 7:00 A.M-3:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye can be reached on 571-272-3186. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 09/858,190

Art Unit: 1794

/Steve Weinstein/ Primary Examiner, Art Unit 1794

Page 7